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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/598,514	01/29/2007	Chuen Khiang Wang	P26634	6698		
7055 GREENBLUM	7590 09/09/201 I & BERNSTEIN, P.L.	EXAMINER				
1950 ROLANI	D CLARKE PLACE	AHMED, SELIM U				
RESTON, VA	20191		ART UNIT	PAPER NUMBER		
				2826		
			NOTIFICATION DATE	DELIVERY MODE		
			09/09/2010	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Advisory Action Before the Filing of an Appeal Brief

Application No.		Applicant(s)		
10/598,514		WANG ET AL.		
	Examiner	Art Unit		
	SELIM AHMED	2826		

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The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress					
THE REPLY FILED 24 August 2010 FAILS TO PLACE THIS AF	PPLICATION IN CONDITION FOR	ALLOWANCE.						
☑ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 3 or CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:								
a) The period for reply expires 3 months from the mailing date	of the final rejection.							
b) The period for reply expires on: (1) the mailling date of this A no event, however, will the statutory period for reply expire te Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f)	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE f).	date of the final rejection FIRST REPLY WAS FI	on. LED WITHIN TWO					
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filled is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	ension and the corresponding amount of shortened statutory period for reply origing than three months after the mailing date	of the fee. The appropri- nally set in the final Office	ate extension fee e action; or (2) as					
NOTICE OF APPEAL 2. ☐ The Notice of Appeal was filed on A brief in comp	lianes with 27 CER 41 27 must be 4	Slad within two worth	a of the date of					
filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the						
<u>AMENDMENTS</u>								
 The proposed amendment(s) filed after a final rejection, t. (a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE belown of the properties) (c) They are not deemed to place the application in better appeal; and/or 	nsideration and/or search (see NOT w);	E below);						
(d) ☐ They present additional claims without canceling a c	corresponding number of finally reje	cted claims.						
NOTE: (See 37 CFR 1.116 and 41.33(a)).								
 The amendments are not in compliance with 37 CFR 1.12 		mpliant Amendment (PTOL-324).					
5. Applicant's reply has overcome the following rejection(s):								
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	owable if submitted in a separate, t	imely filed amendmer	nt canceling the					
7. \(\times \) For purposes of appeal, the proposed amendment(s): a) I how the new or amended claims would be rejected is proving the status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected for: Claim(s) objected for: Claim(s) rejected: 1,5-13.15-22,25 and 27-31. Claim(s) withdrawn from consideration:		be entered and an e	xplanation of					
AFFIDAVIT OR OTHER EVIDENCE								
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 								
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	vercome all rejections under appea	l and/or appellant fail	s to provide a					
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	n of the status of the claims after er	ntry is below or attach	ed.					
The request for reconsideration has been considered but See continuation Note.	t does NOT place the application in	condition for allowan	ce because:					
Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)							
13. Other:								
/Sue A. Purvis/ Supervisory Patent Examiner, Art Unit 2826								

U.S. Patent and Trademark Office

On page 2 of the remark filed on 8/24/2010 applicant argued, "The Examiner has taken the position that, in the LI device, since the dielectric material is at lowable material that is curable and that the dielectric material is stuck between the elielectric material and the dielectric material is stuck between the elielectric material 35 is an adhesive layer as claimed. However, Applicants respectfully submit that that this position is incorrect and inappropriate in this case, since the discrete and separate masses of bonding material 30, which are not in a layer, comprise the adhesive that adheres the members together. The dielectric material, which is in a layer, does not adhere the members together. In this regard, contrary to the Examiner's assertions, merely being a flowable, curable material does not mean that the dielectric material alores the two surfaces together. Accordingly, a flowable, curable material that is positioned of between two surfaces does not mean that the dielectric material adheres the two surfaces together. Accordingly, a flowable, curable material that is positioned of between two surfaces does not, as in this case, necessarily adhere two surfaces does not the contraction of the provided in a layer; and the material that is provided in a layer; and the material that is provided in a layer; and the material that is provided in a layer; and the material that is provided in a layer; and the material that is provided in a layer.

Applicant's above arguments have been fully considered but found not persuasive. First of all, applicant's specification did not disclose any specific type of material of adhesive layer. According to chamber 21st century dictionary (2010 credo reference), adhesive is defined as, sticky, able to make things stick together, or any substance that is used to bond two surfaces together. So, any sticky layer or layer that able to make things stick together; or layer with any substance that is used to bond to surfaces together can be used to meet the claim limitation. As indicated in the rejection, para[0038] of Li discloses dielectric material 35 may be formed from a flowable, curable polymer. Li's layer 35 is sticking between chip 28 and substrate 10. Furthermore, it is known in the art that polymer material having at least some degree of adhesive properties as it fills the space between chip and packaging substrate and sticks between chip and substrate after curing. For example, US 2003/0209801 discloses an underfill 167 polymer adhesive (para[0022]) that fills the space between die 160 and package substrate 170. It is important to note that US 2003/0209801 clearly discloses polymer adhesive implying polymer material having adhesive properties. Since polymeric material 35 stick between chip 28 and substrate 10, it is reasonable to say that 35 is an adhesive layer. It appears that Li's flowable dielectric material 35 is used as an underfill, sticking between chip 28 and substrate 10. The material 35 is only discontinuous in solder balls region but still forms a layer between the chip 24 and substrate 10 in remaining other region than the solder balls region. Secondly, in Fig.9 (different embodiment) of Li discloses a layer (non-labeled) between chip 124 and substrate 110. Since the (non-labeled) layer stick between the chip 124 and the substrate, it can be said as an adhesive layer as well. Thirdly, the secondary Issak reference discloses an epoxy (please note that epoxy is a kind of polymer) layer 126 between a chip 108 and flexible substrate 104 as well. Since epoxy layer 126 is polymer that has adhesive properties, it is reasonable to say that layer 126 acts as an adhesive layer. So, the examiner still believes that Li's layer 35 between the substrate 10 and the chip 28 is an adhesive layer and epoxy layer 126 in secondary reference, Issak is also acting as an adhesive layer and so the final rejection sent on 5/26/2010 is proper.